Manitoba

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Health and Healthy Living
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Dear Colleague,

Please find attached the Summary of Communicable Diseases for the month of May 2008. This information includes the number of reported cases of notifiable communicable diseases for which individuals in Manitoba tested positive* on laboratory samples and/or clinical reports, during the month of May 2008.

Communicable Diseases (non STI-BBPs)

In total, there were **372** new infections occurring across 21 communicable diseases** (excluding sexually transmitted infections and HIV) in May 2008. The observed numbers of cases were within the statistically expected range for all of the reported communicable diseases with the exception of the following diseases:

- Diphtheria Carriers (positive Diphtheria samples from external sites) – 1 cases reported, 0 cases expected
- Strep. pneumococcal septicaemia – 17 cases reported, 2 – 14 cases expected
- Tuberculosis, respiratory – 16 cases reported, 2 – 13 expected

The expected number of cases and accompanying range is based on the statistical number of cases April, May and June, 2003-2008.

MRSA positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals, who have no symptoms and are found with admission screening activities at facilities. If facilities increase their screening activities, it would result in a rise in colonized MRSA cases. Together MRSA and *Clostridium difficile* accounted for 60% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living. *C. difficile* cases tended to be concentrated in the 60+ age group, while cases of MRSA were reported in all age groups.

Sexually Transmitted Infections & Blood-Borne Pathogens

There were **625** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in May:

- 499 cases of chlamydia (Ct)
- 72 cases of gonorrhoea (GC)
- 49 co-infections of Ct and GC and
- 5 cases of syphilis

Forty-five percent of all GC and Ct cases in the province were reported among females of age group 15-24 years. 48% all Ct cases were reported for individuals living in the Winnipeg Health Region and an additional 20% were from the Burntwood Health Region.

In May, 32 individuals tested positive for Hepatitis C virus (HCV) in Manitoba. Thirteen Manitobans tested positive for HIV in May. A new case of HIV infection is defined as a positive test with a unique code that has not been previously associated with a positive test result in Manitoba. Positive tests included in this month's statistics include both nominal and non-nominal testing results. If HIV case investigation forms identify previous positive results with the appropriate nominal or non-nominal information, duplicate counting can be reduced. The HIV cases reported in May were both male and female, between 15 and 59 years of age.

***Note**: Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date.

****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are <u>not referred out</u> for public health follow-up:

- Ascariasis (ICD9: 127.0)
- Leishmaniasis – unspecified (ICD9: 085.9)
- Methicillin or vancomycin resistant *Staphylococcus aureus* (MRSA/VRSA) (ICD9 B95.6)
- Schistosomiasis (ICD9: 120)
- *Streptococcus pneumoniae* – other site (ICD9: 041.2)
- *Strongyloides* (ICD9: 127.2)
- Vancomycin resistant enterococci (VRE) (ICD9 B96.8)

The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are referred out to public health <u>for information only</u>:

- Viral Meningitis – CoxSackie
- Viral Meningitis – Echo
- Viral Meningitis – Entero
- Viral Meningitis – H. simplex (Epstein Barr, CSF only)

All other diseases are referred out for further public health <u>follow-up and investigation</u>

Please feel free to contact me should you have any questions about this report.
Thank you.

Sincerely,

Myrna Dyck BN, MSc
Epidemiologist, Communicable Diseases
Public Health Surveillance System
Manitoba Health and Healthy Living

SUMMARY OF COMMUNICABLE DISEASE FOR May 2008

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2007	2008	Expected*	Ex. Range**	2007	2008
006.9	AMEBIASIS	4	4	4	0-9	24	17
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS	1		0	0-1	2	
320.0	BAC. MENINGITIS - HAEM			0	0-0		
320.1	BAC. MENINGITIS - PNEUM	2		0	0-1	3	
320.7	BAC.MENINGITIS-LISTERIA				***		
116.0	BLASTOMYCOSIS	1	1		***	10	4
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-1	1	
008.43	CAMPYLOBACTER	21	17	20	3-37	75	74
558.2	CLOSTRIDIUM DIFFICILE	82	68		***	477	363
046.1	CREUTZFELD-JACOB DISEASE				***		
007.8	CRYPTOSPORIDIOSIS		1	2	0-5	9	6
061.0	DENGUE FEVER			0	0-0	1	1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-0		3
032	DIPHTHERIA CASES			0	0-0		1
123.4	DIPHYLLOBOTHRIUM SPP	2		1	0-3	3	1
008.0	E. COLI-VEROTOXIGENIC	2		7	0-14	9	12
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	11	9	9	3-15	42	39
041.5	H.I.B.-NON MTGS			0	0-1		1
041.59	HAEM. INFLUENZAE (non-B)	3			***	7	6
480.8	HANTA VIRUS			0	0-1	1	
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0	1	
070.1	HEPATITIS A	1	2	3	0-11	6	7
070.3	HEPATITIS B	1		1	0-2	3	3
070.51	HEPATITIS C	39	32	34	15-53	151	158
487.1A	INFLUENZA A				***	70	78
487.1B	INFLUENZA B		5		***	1	43
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			0	0-1		2
088.81	LYME DISEASE			0	0-2		
084	MALARIA	5		2	0-6	7	4
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			0	0-1	3	1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		2
B95.6	MRSA	140	156	86	0-176	744	829
072.9	MUMPS	3		0	0-2	3	
036.89	N.MENINGITIDIS OTHER			0	0-1		2
728.86	NECROTIZING FASCIITIS	2	3	1	0-4	3	5
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1		3	0-8	5	7
038.2	PNEUM. SEPTICEMIA	9	17	8	2-14	43	61
073.9	PSITTACOSIS			0	0-0		
083.0	Q FEVER			0	0-0		1

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2007	2008	Expected*	Ex. Range**	2007	2008
056.9	RUBELLA			0	0-1	2	
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-4	1	1
003.0	SALMONELLA	11	22	14	6-22	101	113
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	1	2	1	0-3	8	12
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	1	2
481.9	STREP PNEUMONIA - PR			0	0-1		
041.1	STREP PYOGENES - OTHER STER	2	7		***	17	19
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			1	0-3	1	2
127.2	STRONGYLOIDES	7	2	1	0-5	13	3
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.			2	0-1		
011	TUBERCULOSIS - RESP.	6	16	8	2-13	33	38
010	TUBERCULOSIS-PRIM.	1	2	1	0-7	3	3
021.9	TULAREMIA			0	0-1		
002.0	TYPHOID			0	0-0		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	4	4		***	22	29
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
196	WNV ASYMPTOMATIC INFECTION				***		
198	WNV NEUROLOGICAL SYNDROME				***		
197	WNV NON-NEUROLOGICAL SYND				***		
066.3	WNV UNCLASSIFIED				***		
008.44	YERSINIA ENTEROCOLITICA	1	1	1	0-3	7	1
		363	**372**			**1913**	**1955**

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR May 2008

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS	1	1				2																4
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	7	2				2		2		2		1			1							17
558.2	CLOSTRIDIUM DIFFICILE	37	3		1		3		8		6		6		1		1	1	1				68
007.8	CRYPTOSPORIDIOSIS														1								1
V02.4	DIPH. CARRIERS																		1				1
007.1	GIARDIA LAMBLIA	3					1				1		1				1	1	1				9
070.1	HEPATITIS A	2																					2
070.51	HEPATITIS C	19	2				1		3				3		1		1		2				32
487.1B	INFLUENZA B	5																					5
B95.6	MRSA	58	8		2		2		2		3		6		2		7	41	25				156
728.86	NECROTIZING FASCIITIS	3																					3
003.0	SALMONELLA	13					3		1		2				2			1					22
004	SHIGELLOSIS	1					1																2
041.1	STREP PYOGENES - OTHER ST	5			1																1		7
038.2	STREP.PNEUMOCOCCAL SE PTIC	7			1		1		1		3								3		1		17
038.0	STREPTOCOCCAL SEPTICEM IA	7	1		1		1		1		1		1				1	1	1				16
127.2	STRONGYLOIDIASIS	2																					2
010	TUBERCULOSIS - PRIM	1															1						2
011	TUBERCULOSIS - RESP.	8																8					16
B96.8	VANCOMYCIN RES. ENTER.	3													1								4
008.44	YERSINIA ENTEROCOLITICA		1																				1
		183	18		6		17		18		18		18		8	1	12	53	34		2		388

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction

STD Infection Summary Report - May 2008

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	**2007**	**2008**	**2007**	**2008**
All Chlamydia Infections	414	548	1933	2928
All Gonorrhea Infections (including PRNG)	125	121	531	644
All Syphilis Infections	4	5	19	16
Gonorrhea & Chlamydia Co-infections	53	49	205	286
HIV	3	13	34	41

Total Number of STD Cases by Age and Gender - May 2008

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
Disease Name	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**age/gendr**	
Chlamydia Only Cases							1	2	122	28	111	51	59	24	45	32	10	10	2			1		1				499
Gonorrhea Only Cases									10	7	9	8	11	7	7	8	1	2		2								72
Syphilis Only Cases									1		1				2					1								5
GC and CT Cases									11		13	11	5	2	2	2	2			1								49
							1	2	144	35	134	70	75	33	56	42	13	12	2	4		1		1				625
HIV									1			2			1	2	1	2	1	3								13

Regional STD Distribution - May 2008

Disease/Infection	**Winnipeg**	**Brandon**	**N.Eastman**		**S.Eastman**		**Interlake**		**Central**		**Assiniboine**		**Parkland**		**Norman**		**Burntwood**		**Churchill**	**OOP**	**Missing**	**TOTAL**
Case Referred to:*			***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***				
All Chlamydia Infections	259	5	13	9		7	2	18		23		52	9	17	3	20	73	36		2		548
All Gonorrhea Infections	49	1	3	1				2		4		11		2	1	9	28	8		2		121
All Syphilis Infections	4											1										5
GC and CT Infections	13		1					1		1		7		2	1	1	16	6				49

* F=Federal Jurisdiction (includes First Nations and Inuit Health) P=Provincial Jurisdiction

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR May 2008

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
006.9	AMEBIASIS																1		1			1	1						4
116.0	BLASTOMYCOSIS																	1											1
008.43	CAMPYLOBACTER	1			2	1					1		2	1		2	2		2		1		1		1				17
558.2	CLOSTRIDIUM DIFFICILE	1							1			1			1	4		3	3	2	2	9	5	7	4	14	11		68
007.8	CRYPTOSPORIDIOSIS										1																		1
V02.4	DIPH. CARRIERS												1																1
007.1	GIARDIA LAMBLIA			1	2	1	1							1		1			1						1				9
070.1	HEPATITIS A							1											1										2
070.51	HEPATITIS C											1			1	7	7	5	4		5		2						32
487.1B	INFLUENZA B																									5			5
B95.6	MRSA	3	4	4	9	6	5	6	3	3	5	5	2	6	8	5	11	6	7	7	4	4	8	5	5	13	12		156
728.86	NECROTIZING FASCIITIS												1				1	1											3
003.0	SALMONELLA		1	1	1			1	1		1	1			2	2	1		4	2	2		1		1				22
004	SHIGELLOSIS											1							1										2
041.1	STREP PYOGENES - OTHER ST					1												1	1	1		2	1						7
038.2	STREP.PNEUMOCOCCAL SEPTIC	1				1	1			1	1						1	2	3	1	1		1	1		2			17
038.0	STREPTOCOCCAL SEPTICEMIA		1									1	1	1		1	1	1	1	1	2	1			1		3		16
127.2	STRONGYLOIDIASIS													1					1										2
010	TUBERCULOSIS - PRIM		1					1																					2
011	TUBERCULOSIS - RESP.														1	1	5	5	3			1							16
B96.8	VANCOMYCIN RES. ENTER.																			1	1					2			4
008.44	YERSINIA ENTEROCOLITICA											1																	1
		6	7	6	14	10	7	9	5	4	9	11	7	10	13	23	30	25	33	15	18	18	20	13	13	36	26		388